

Application No. 09/821,539
Reply to Office Action of July 7, 20003

Attorney Docket No. 81880.0096

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously presented): An optical device module comprising:
an optical device;
an optical fiber, an end portion of which is optically coupled to the optical device;
a package containing the optical device and the optical fiber; and
an insertion tube fixed through the wall of the package, the optical fiber extending through the insertion tube out of the package,
wherein the end portion of the optical fiber is offset with respect to a fixed portion of the optical fiber, which fixed portion is below the end portion and which fixed portion is sealed within the insertion tube, to bend the optical fiber between the end portion and the fixed portion of the optical fiber,
and wherein an axis of the fixed portion is parallel to an axis of the end portion.

2. (Currently amended): ~~The~~ An optical device module ~~according to claim 1,~~
comprising:
an optical device;
an optical fiber, an end portion of which is optically coupled to the optical device;
a package containing the optical device and the optical fiber; and
an insertion tube fixed through the wall of the package, the optical fiber extending through the insertion tube out of the package.
wherein the end portion of the optical fiber is offset with respect to a fixed portion of the optical fiber, which fixed portion is below the end portion and which

Application No. 09/821,539
Reply to Office Action of July 7, 20003

Attorney Docket No. 81880.0096

fixed portion is sealed within the insertion tube, to bend the optical fiber between the end portion and the fixed portion of the optical fiber.

wherein an axis of the fixed portion is parallel to an axis of the end portion,
and

wherein a ring member having a through hole for inserting the optical fiber is inserted co-axially within the insertion tube and sealed with the insertion tube by soldering, through the ring member.

3. (Currently amended): ~~The~~ An optical device module ~~according to claim 1,~~
comprising:

an optical device;

an optical fiber, an end portion of which is optically coupled to the optical device;

a package containing the optical device and the optical fiber; and

an insertion tube fixed through the wall of the package, the optical fiber extending through the insertion tube out of the package.

wherein the end portion of the optical fiber is offset with respect to a fixed portion of the optical fiber, which fixed portion is below the end portion and which fixed portion is sealed within the insertion tube, to bend the optical fiber between the end portion and the fixed portion of the optical fiber.

wherein an axis of the fixed portion is parallel to an axis of the end portion,
and

wherein the end portion of the optical fiber is fixed through a ferrule which is fixed to a ferrule holder capable of being deformed plastically.

4. (New): The optical device module according to claim 1, further comprising a thermoelectric cooling element.

Application No. 09/821,539
Reply to Office Action of July 7, 20003

Attorney Docket No. 81880.0096

5. (New): The optical device module according to claim 1, wherein the optical device is a semiconductor laser.

6. (New): The optical device module according to claim 2, wherein the ring member is made of Kovar material.

7. (New): The optical device module according to claim 2, wherein the ring member has a thickness of 0.7 mm.

8. (New): The optical device module according to claim 2, further comprising a thermoelectric cooling element.

9. (New): The optical device module according to claim 3, wherein the end portion of the optical fiber is soldered to the ferrule by Au-Sn alloy solder.

10. (New): The optical device module according to claim 3, wherein the ferrule holder is bent into a U shape.

11. (New): The optical device module according to claim 3, wherein the ferrule holder is made of a Kovar plate.

12. (New): The optical device module according to claim 3, wherein the ferrule holder has a thickness of 0.15 mm.

13. (New): The optical device module according to claim 3, further comprising a thermoelectric cooling element.